Gigabit PCI Card

User's Manual

Model # ALN-328R

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Caution

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions.

(1) This device may not cause harmful interference, and

(2) This device must accept any interference received, including interference that may cause undesired operation.

Per FCC 15.21, you are cautioned that changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.

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1. Introduction

This is a 10/100/1000Mbps Gigabit Ethernet PCI Adapter that provides high performance of wired network connectivity for your Desktop PC. It complies with IEEE 802.3x Full Duplex Flow Control, data is received and transmitted smoothly from and to the network. With this Adapter, you can access documents, music, movies and photos that are shared on your network at speeds of 10 times faster than 10/100 Fast Ethernet cards. This device offers easy installation and cost-effective connection for SOHO and residential users.

This product is made in ISO9001 approved factory, and complies with FCC part 15 regulations and CE approval.

1.1 Features & Specifications

Features

- Complies with 32-bit PCI V2.2 specifications
- Complies with IEEE 802.3, IEEE 802.3u and IEEE 802.3ab
- Supports 10/100/1000Mbps operations
- Supports Full Duplex Flow Control (IEEE 802.3x)
- Supports IEEE 802.1O VLAN tagging
- Supports Wake-On-LAN (WOL) function (for product with WOL function only)

Specifications

- Data Transfer Rates: 10/100/1000Mbps
- Protocol: IEEE 802.3 10Base-T,
  IEEE 802.3u 100Base-TX,
  IEEE 802.3ab 1000Base-T,
  IEEE 802.3x Full Duplex Flow Control
- Interface: 32-bit PCI V2.2 specifications
- Connector: RJ-45 x 1
- Operating Temperature: 0˚C ~ 40˚C
- Humidity: 5 % ~ 95 % (non-condensing)
- Storage Temperature: 0˚C ~ 70˚C
- Supported OS: Windows NT4.0, 98 / 98SE, ME, 2000, XP, XP-64bit, Vista, Windows 7 and Linux

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1.2 Minimum System Requirements

- Pentium compatible processor 200 MHz and above
- 32 MB system memory or more
- 30 MB free space on your hard drive
- CD-ROM drive
- One available PCI slot
- Windows NT4.0, Windows 98/98SE, Windows ME, Windows 2000, Windows XP, Windows Vista, Windows 7, or Linux OS.

1.3 Package Contents

- One Gigabit PCI Adapter
- One Installation CD-ROM
- One WOL Cable (for product with WOL function only)

If any of above items is missing or damaged, please contact your local dealer immediately.

2. Hardware Installation Instructions

1) Turn off computer and remove its cover.

2) Insert the contact edge of the adapter card into the connector of any available PCI Bus master expansion slot. Press the card firmly into the connector to PCI slot. Please make sure the card's contacts are fully seated in the PCI slot.

3) Install the bracket screw that secures the card to the Computer chassis.

4) Replace the computer's cover.

5) Connect the Gigabit NIC card to the network with Ethernet Cable and turn on the computer.

6) After computer is restarted, the "**Found New Hardware**" window will appear. Please click "**Cancel**" to close this window and insert the Installation CD into the CD-ROM. Follow the section 3 "**Software Driver Installation**" to setup the device driver.

Found New Hardware
Windows needs to install driver software for your Ethernet Controller
Locate and install driver software (recommended)
Windows will guide you through the process of installing driver software for your device.
Ask me again later
Windows will ask again the next time you plug in your device or log on.
Don't show this message again for this device
Your device will not function until you install driver software.
Cancel

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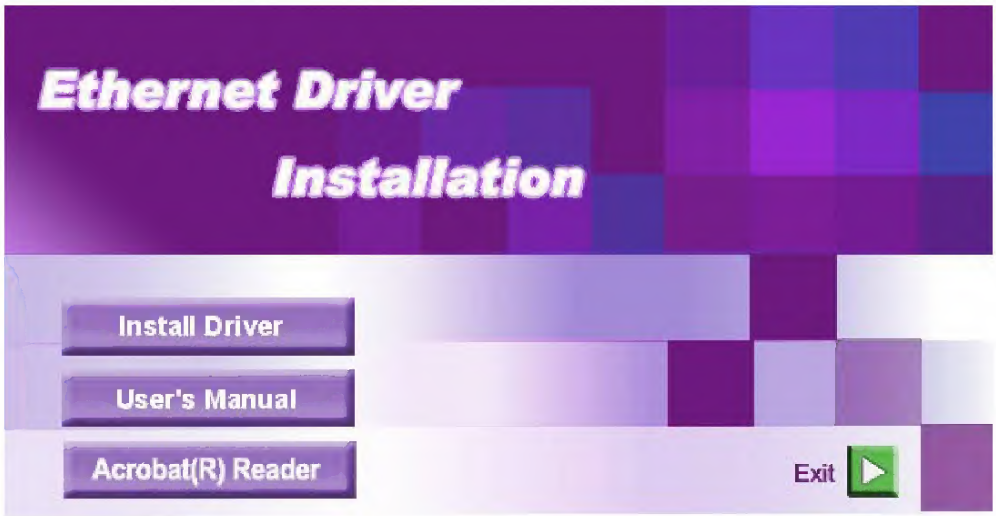
3. Software Driver Installation

Insert Gigabit PCI Adapter Installation CD into CD-ROM drive then window below will appear.



Install Driver: Click Install Driver to start Gigabit PCI Adapter installation process.

User Manual: Click User Manual to open Gigabit PCI Adapter User Manual

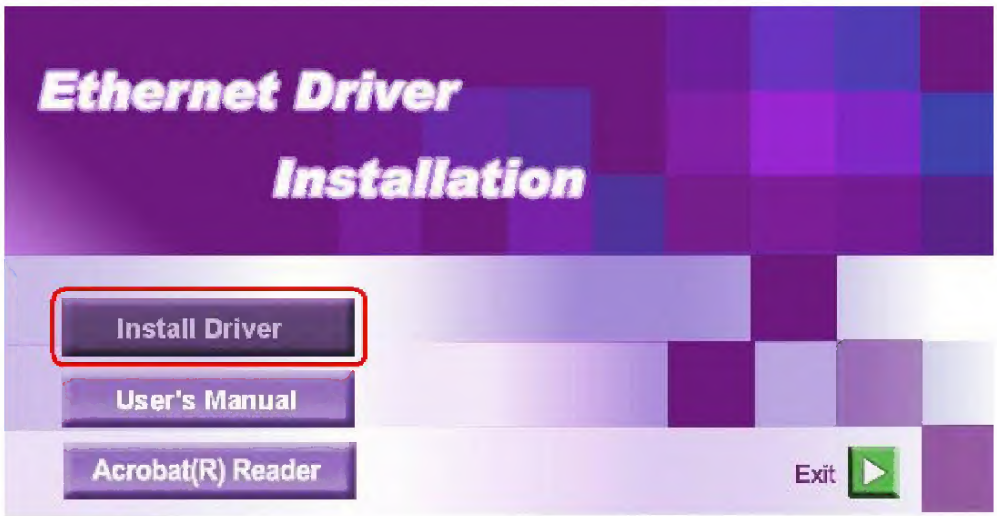
Acrobat® Reader: Adobe Reader software to support PDF format file.

(*6.0* Version supports Windows 98/ME/2000; *8.0* Version supports Windows XP/Vista/7)

3.1 For Windows

Windows 7

Step 1: Insert installation CD into CD-ROM and window below will appear.



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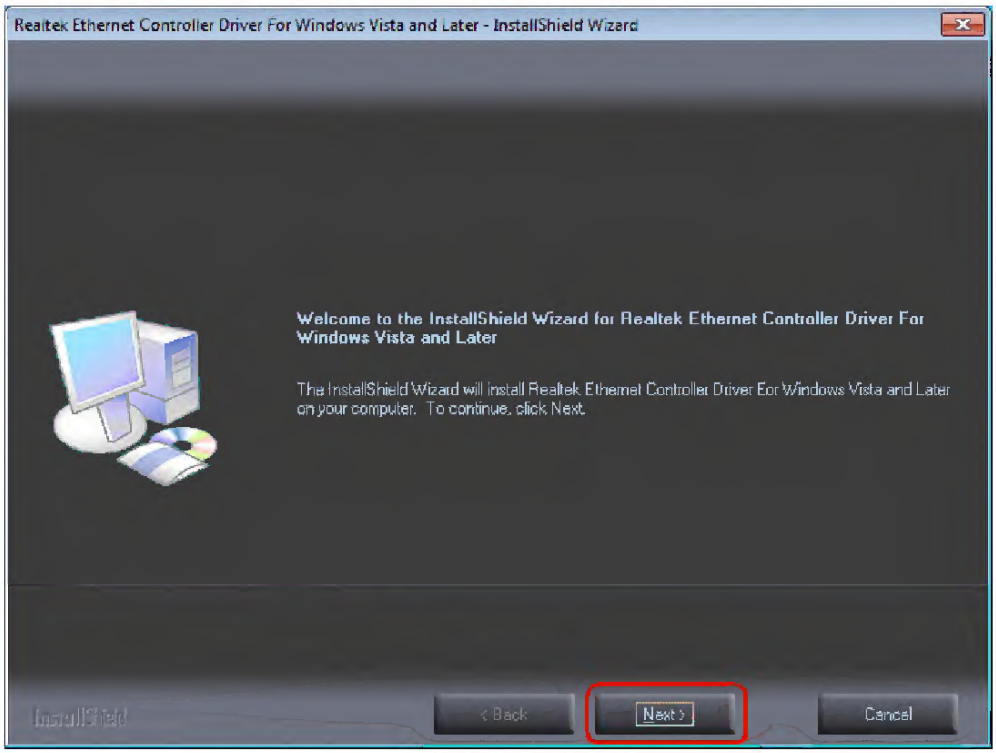
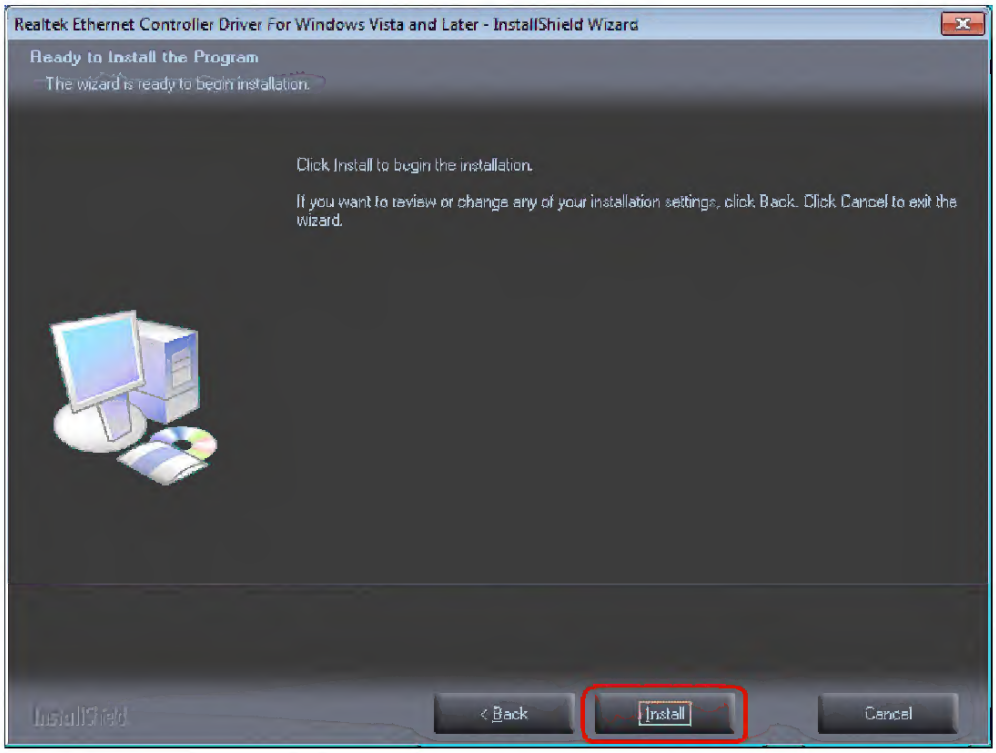
Step 2: The Welcome screen will display as below. Click "Next" to continue.


Realtek Ethernet Controller Driver For Windows Vista and Later - InstallShield Wizard
Welcome to the InstallShield Wizard for Realtek Ethernet Controller Driver For Windows Vista and Later
The InstallShield Wizard will install Realtek Ethernet Controller Driver For Windows Vista and Later on your computer. To continue, click Next.
InstallShield
< Back
Next >
Cancel

Step 3: Click "Install" to begin the installation.


Realtek Ethernet Controller Driver For Windows Vista and Later - InstallShield Wizard
Ready to Install the Program
The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield
< Back
Install
Cancel

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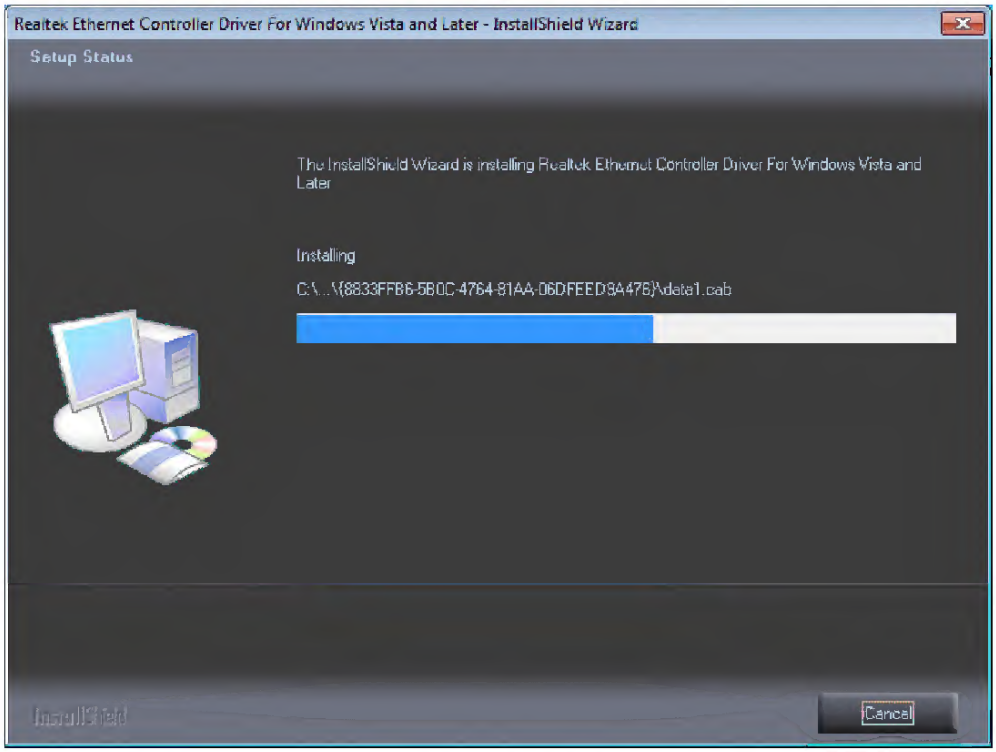
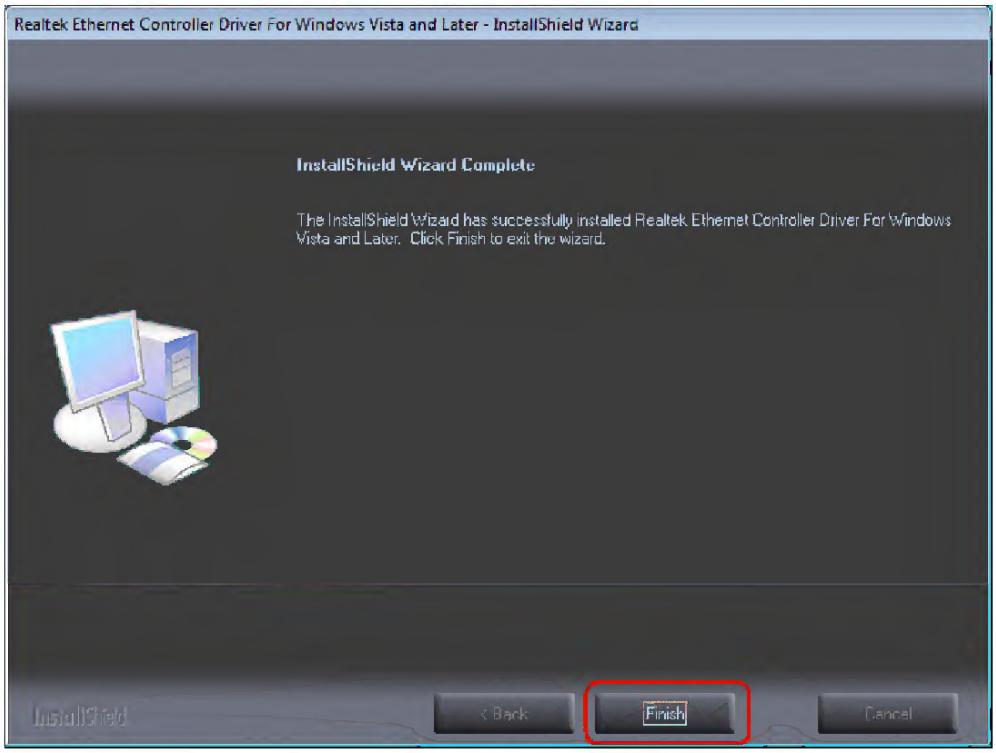
Step 4: Please wait for while setup wizard is installing the PCI driver.


Realtek Ethernet Controller Driver For Windows Vista and Later - InstallShield Wizard
Setup Status
The InstallShield Wizard is installing Realtek Ethernet Controller Driver For Windows Vista and Later
Installing
C:\...\{8833FFB6-5B0C-4764-81AA-06DFEED9A476}\data1.cab
InstallShield
Cancel

Step 5: After the driver is installed successfully, click "Finish" to exit the wizard.


Realtek Ethernet Controller Driver For Windows Vista and Later - InstallShield Wizard
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed Realtek Ethernet Controller Driver For Windows Vista and Later. Click Finish to exit the wizard.
InstallShield
< Back
Finish
Cancel

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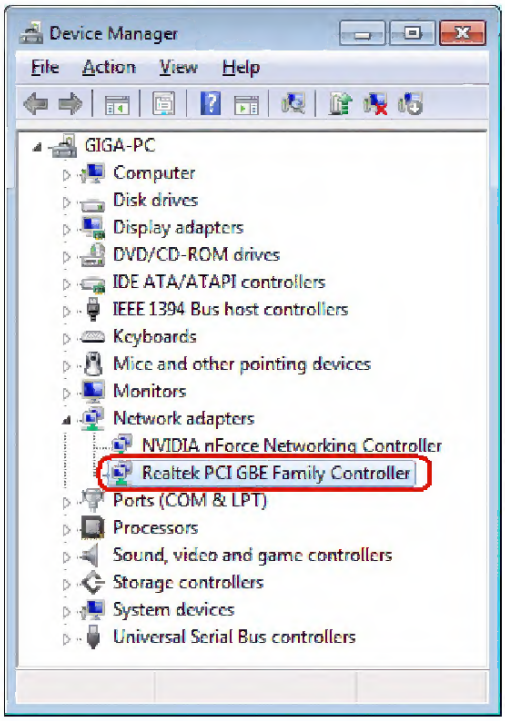
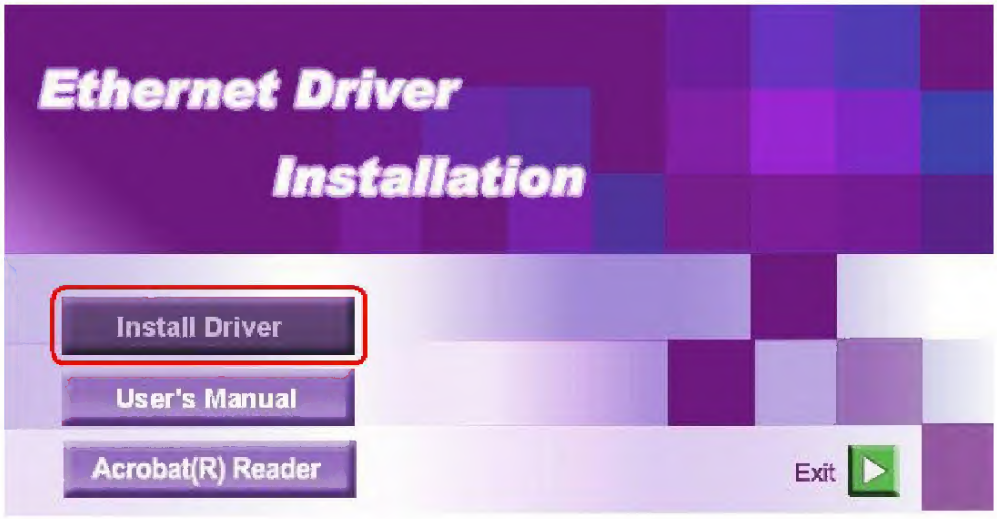
Step 6: To check if Gigabit PCI Adapter is properly installed:

Right-click "My Computer" on the Desktop ➔ Choose "Properties" ➔ Select "Device Manager"



Windows Vista/XP/2000/ME/98SE

Step 1: Insert installation CD into CD-ROM and window below will appear.



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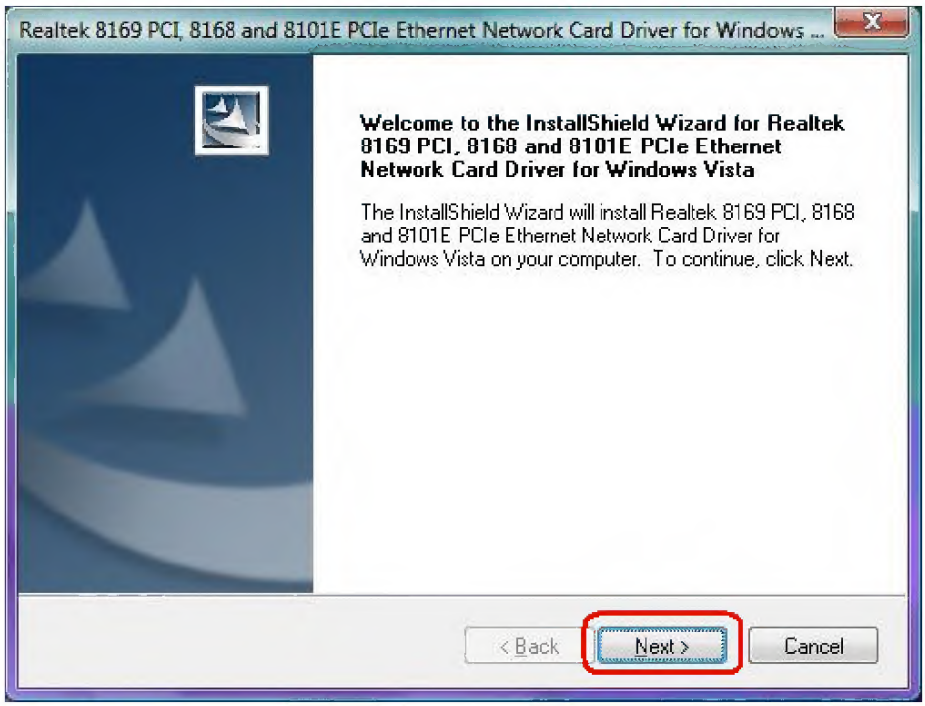
Step 2: Please wait for while during the setup program is setup/refresh the device driver.

Step 3: The welcome screen of setup program will appear as below. Click "**Next**" to continue.


Realtek 8169 PCI, 8168 and 8101E PCIe Ethernet Network Card Driver for Windows ...
Welcome to the InstallShield Wizard for Realtek 8169 PCI, 8168 and 8101E PCIe Ethernet Network Card Driver for Windows Vista
The InstallShield Wizard will install Realtek 8169 PCI, 8168 and 8101E PCIe Ethernet Network Card Driver for Windows Vista on your computer. To continue, click Next.
< Back
Next >
Cancel

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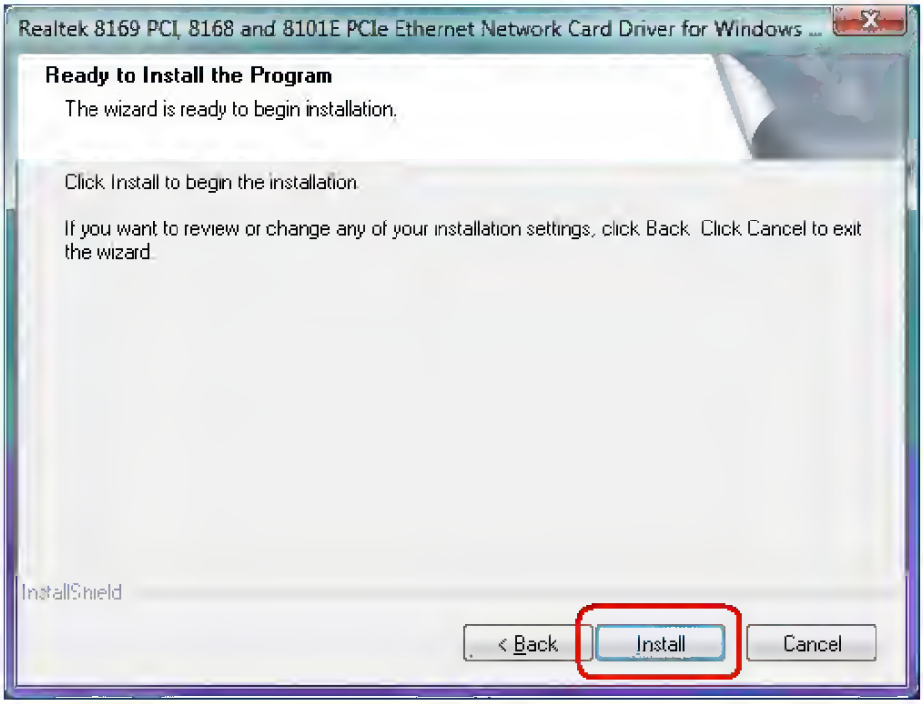
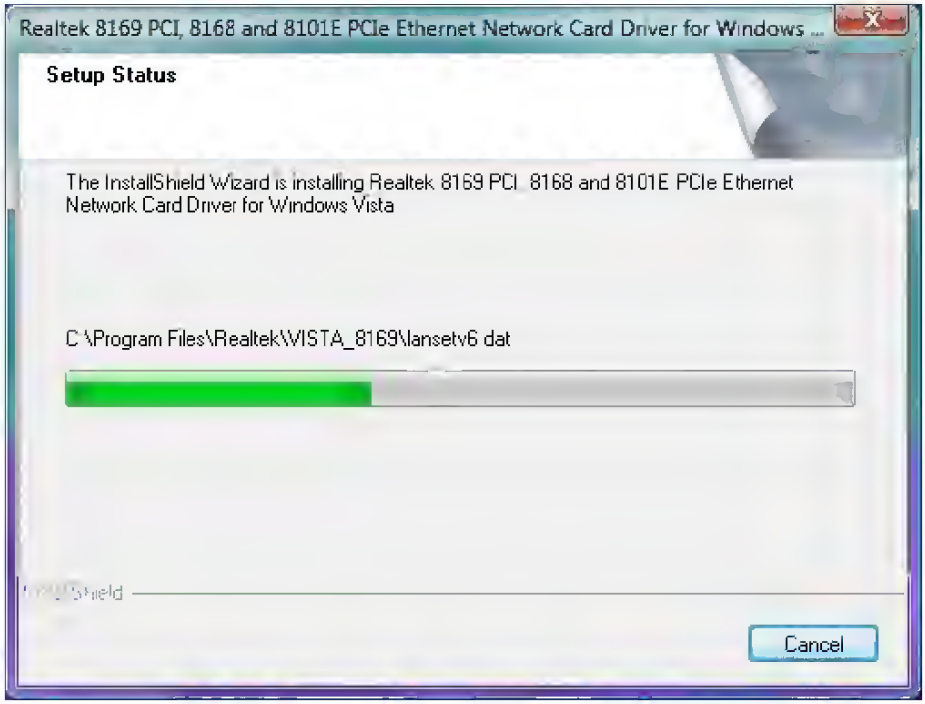
Step 4: Click "**Install**" to begin the installation.


Realtek 8169 PCI, 8168 and 8101E PCIe Ethernet Network Card Driver for Windows ...
Ready to Install the Program
The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield
< Back
Install
Cancel

Step 5: Please wait for while setup wizard is installing the PCI driver.


Realtek 8169 PCI, 8168 and 8101E PCIe Ethernet Network Card Driver for Windows ...
Setup Status
The InstallShield Wizard is installing Realtek 8169 PCI, 8168 and 8101E PCIe Ethernet Network Card Driver for Windows Vista
C:\Program Files\Realtek\VISTA_8169\lansetv6.dat
Cancel

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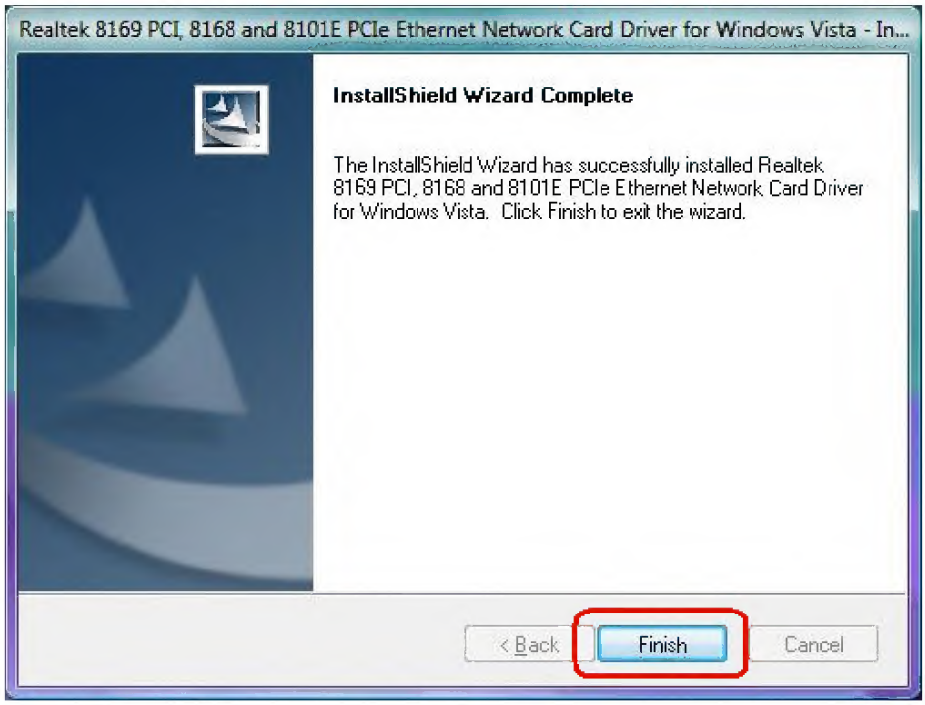
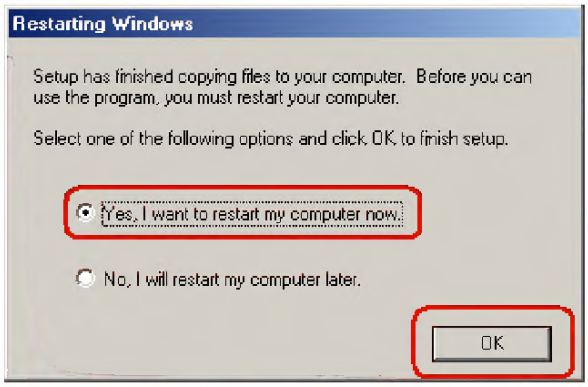
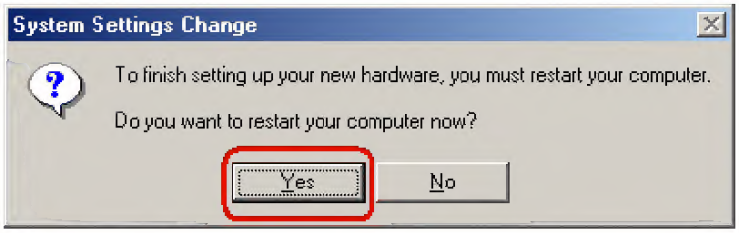
Step 6: After install wizard has successfully installed the PCI driver, click "**Finish**" to exit the wizard.


Realtek 8169 PCI, 8168 and 8101E PCIe Ethernet Network Card Driver for Windows Vista - In...
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed Realtek 8169 PCI, 8168 and 8101E PCIe Ethernet Network Card Driver for Windows Vista. Click Finish to exit the wizard.
< Back
Finish
Cancel

Step 7: For *Windows ME* and *98SE* Operation System, you must restart your computer before you can use the program. Select "**Yes, I want to restart my computer**" and click "**OK**" to restart.


Restarting Windows
Setup has finished copying files to your computer. Before you can use the program, you must restart your computer.
Select one of the following options and click OK to finish setup.
Yes, I want to restart my computer now.
No, I will restart my computer later.
OK

Step 8: To finish setting up your new device driver installation, operating system will show message and ask to restart your computer. Click **"Yes"** to complete the System Settings Change.


System Settings Change
To finish setting up your new hardware, you must restart your computer.
Do you want to restart your computer now?
Yes
No

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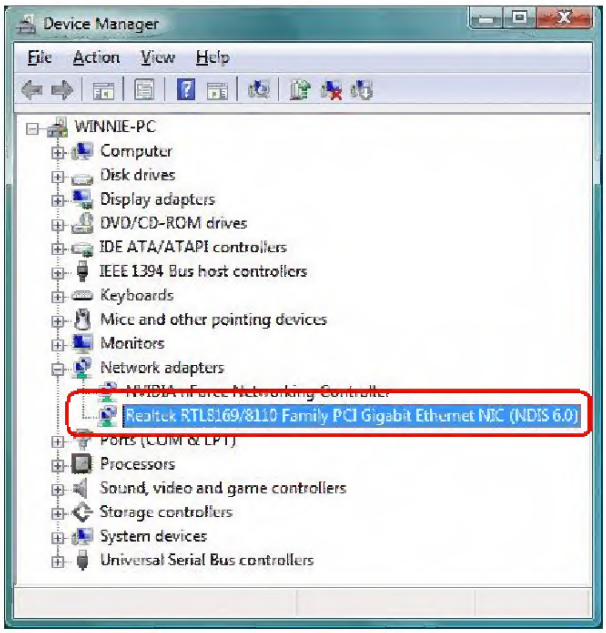
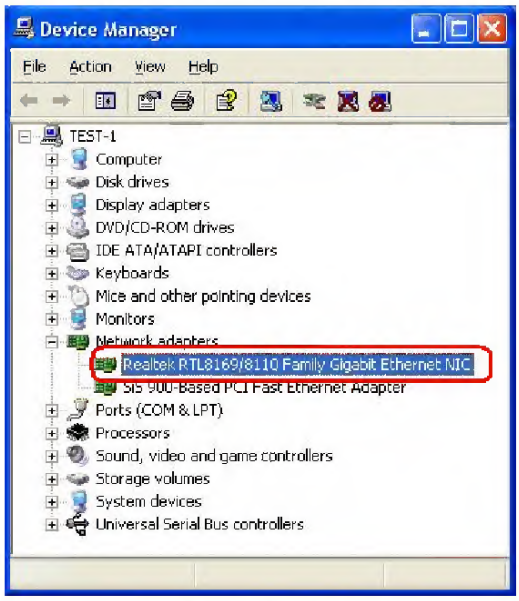
Step 9: To check if Gigabit PCI Adapter is properly installed:

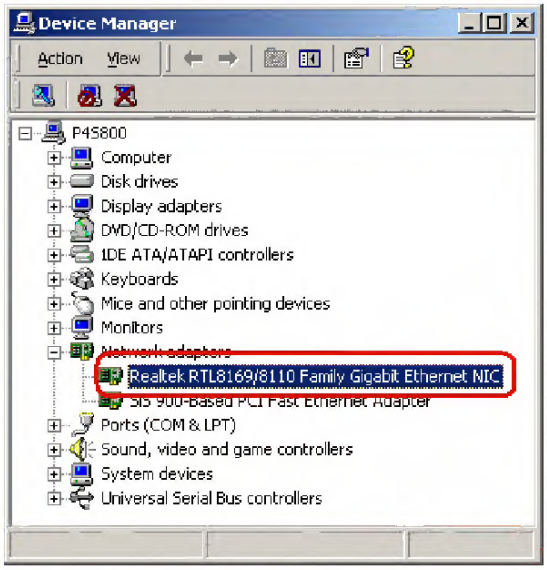
For Windows Vista: Right-click "**My Computer**" on the Desktop ➔ Choose "**Properties**" ➔ Select "**Device Manager**"



For Windows XP/2000: Right-click "**My Computer**" on the Desktop ➔ Choose "**Properties**" ➔ Choose "**Hardware**" tab ➔ Click "**Device Manager…**"



(For Windows XP)



(For Windows 2000)

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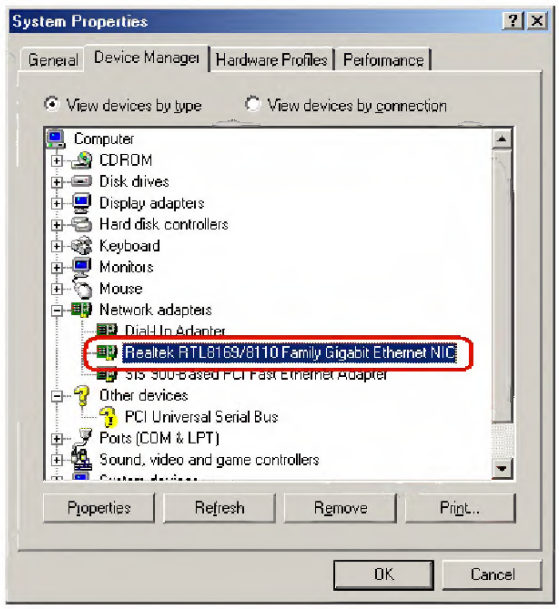
For Windows ME/98SE: Right-click "**My Computer**" on the Desktop ➔ Choose "**Properties**" ➔ Click "**Device Manager…**"



3.3 For Windows 98 First Edition

When system boots up first time with new Gigabit PCI adapter presents, Windows operation system will detect new hardware and ask for hardware driver.

Put Gigabit PCI Adapter driver install CD from product package into CD-ROM drive and go to device driver CD Location, and then find your new Gigabit PCI Adapter device driver.

Example:

For **IC Plus** → E:\DRIVER\IC_PLUS\WIN98_1ST

For **Realtek** → E:\DRIVER\REALTEK\Windows\WIN98A

Follow the instruction windows to complete the installation.

3.4 For Windows NT4.0

1) Login to NT4.0 after install new Gigabit PCI Adapter.
2) Put Gigabit PCI Adapter installation CD from product package into CD-ROM drive and go to device driver CD location, and then find your new Gigabit PCI Adapter device driver. Example:

   For **IC Plus** → E:\DRIVER\IC_PLUS\NT4.0

   For **Realtek**→ E:\DRIVER\REALTEK\Windows\NT4.0
3) Follow the installation instructions in Readme.txt to complete the installation.

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3.5 For Linux

1) Login to Linux after install new Gigabit PCI Adapter.

2) Put Gigabit PCI Adapter installation CD from product package into CD-ROM drive and go to device driver CD location, and then find your new Gigabit PCI Adapter.

Example:

For **IC Plus** → E:\DRIVER\IC_PLUS\Linux_Kernel 2.6.X_2.4.X

For **Realtek**→ E:\DRIVER\REALTEK\LINUX

3) Follow the installation instructions in Readme.txt to complete the installation.

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